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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	: 10/647,140
Applicant	: Kater D. HAKE et al.
Filed	: August 25, 2003
TC/A.U.	: 1638
Examiner	: To Be Assigned
Docket No.	: 1760-297
Customer No.	: 06449
Confirmation No.	: 1047

INFORMATION DISCLOSURE STATEMENT

Director of the United States Patent
and Trademark Office
P.O. Box 1450
Alexandria, Virginia 22313-1450

Dear Sir:

Under the provisions of 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant submits herewith information that the Office may wish to consider in examination of the subject application. Also attached is a Search Report/Written Opinion issued by the PCT in a co-pending related foreign application. Materials submitted for consideration are listed on the attached form PTO-1449. No action on the merits has been issued in the instant application, therefore Applicants believe that no fee is due. Should a fee be deemed necessary, the Office is authorized to charge any fee to deposit account no. 02-2135. A copy of this communication is enclosed for that purpose.

Applicants would like to bring the Examiner's attention to the references cited in the enclosed International Search Report and to the other references listed below, which also are listed in the accompanying Form 1449.

Chapman et al., J. Am. Oil Chemists Soc. 78:941-947 (2001) report the development of transgenic cotton plants with higher seed oleic acid levels by a targeted suppression of endogenous cottonseed FAD2 enzyme activity in the plants.

Cherry et al., "Food and Feeding Quality of Cottonseed," Cotton Physiology, the Cotton Foundation (1986) at 557-595, is a review article which provides an overview of the progress made in improving seed quality in cotton and information on the constituents of cottonseed of different varieties.

May, "Breeding Improvements - What does the future hold?", 14th Ann. EFS® Conference, June 11-13, 2001, suggests that seed oil can be used as an indirect selection criterion for enhanced cotton fiber yield. He reports, however, based on preliminary data, that the phenotypic correlations in the F2 generation of plants from a cross between high and low seed oil concentration parents, ACRI94216 and SureGrow 248, "revealed seed oil concentration was not highly correlated with the yield component or fiber quality traits."

U.S. Patent Nos. 5,723,765, 5,925,808 and 5,977,441 disclose genetic systems that can be used to control gene expression in plants.

In addition, Applicants would like to point out the National Cotton Variety Test data (Rayburn, 1989-2001), which are cited in the application. The published data for the year 2001 is included with this Information Disclosure Statement and is listed in the Form 1449 as an example of the type of data available to Applicants and discussed in the application (see Figures 1-3 and Examples discussing those Figures).

Respectfully submitted,

By _____

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MC:twg
Enclosure(s):
PTO Form 1449 w/References
International Search Report

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.[1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	1A	4,959,317		SAUER	09/25/1990
	1B	5,106,739		COMAI et al.	04/21/1992
	1C	5,378,619		ROGERS	01/03/1995
	1D	5,492,820		SONNEWALD et al.	02/20/1996
	1E	5,530,196		FRALEY et al.	06/25/1996
	1F	5,563,328		MITRA et al.	10/08/1996
	1G	5,716,837		BARRY et al.	02/10/1998
	1H	5,723,765		OLIVER et al.	03/03/1998
	1I	5,795,753		CIGAN et al.	08/18/1998
	1J	5,850,019		MAITI et al.	12/15/1998
	1K	5,856,177		GRULA et al.	01/05/1999
	1L	5,917,127		WILLMITZER et al.	06/29/1999
	1M	5,925,808		OLIVER et al.	07/20/1999
	1N	5,955,651		CORUZZI et al.	09/21/1999
	1O	5,977,441		OLIVER et al.	11/02/1999
	1P	5,981,852		VAN ASSCHE et al.	11/09/1999
	1Q	5,986,173		SMEEKENS et al.	11/16/1999
	1R	6,025,542		SMEEKENS et al.	02/15/2000

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	1S	6,051,753		COMAI et al.	04/18/2000
	1T	6,057,493		WILLMITZER et al.	05/02/2000
	1U	6,175,060	B1	LEFEBVRE et al.	01/16/2001
	1V	6,184,440	B1	SHOSEYOV et al.	02/06/2001
	1W	6,222,098	B1	BARRY et al.	04/24/2001
	1X	6,235,971	B1	BARRY et al.	05/22/2001
	1Y	6,420,629	B1	XUE et al.	07/16/2002
	1Z	6,423,885	B1	WATERHOUSE et al.	07/23/2002
	2A	6,441,277	B1	BARRY et al.	08/27/2002
	2B	6,444,876	B1	LASSNER et al.	09/03/2002
	2C	6,462,257	B1	PERERA et al.	10/08/2002
	2D	6,476,294	B1	LASSNER et al.	11/05/2002
	2E	6,476,295	B2	BARRY et al.	11/05/2002
	2F	2002/0023282	A1	GAXIOLA	02/21/2002
	2G	2002/0066121	A1	KOSEGI et al.	05/30/2002
	2H	2002/0138875	A1	BARRY et al.	09/26/2002
	2I	2002/0170091	A1	LASSNER et al.	11/14/2002

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		Office[3] Code	Number[4]	Kind[5] (if known)			
	2J	EP	0 332 104	A2/A3	CIBA-GEIGY AG	09/13/1989	
	2K	EP	0 608 359	B1	E.I. DuPont De Nemours & Co.	08/03/1994	
	2L	WO	93/07742	A1	E.I. DuPont De Nemours & Co.	04/29/1993	
	2M	WO	97/06269	A1	Zeneca Limited	02/20/1997	
	2N	WO	97/44471	A2	Max-Planck-Gesellschaft Zur Forderung Der Wissenschaften E.V.	11/27/1997	
	2O	WO	98/11240	A2	B.C. Research Inc.	03/19/1998	
	2P	WO	98/58069	A1	Monsanto Company	12/23/1998	
	2Q	WO	00/63401	A1	Pioneer Hi-Bred International, Inc.	10/26/2000	
	2R	WO	00/70062	A1	Monsanto Company	11/23/2000	
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	2T	WO	00/78984	A2	Pioneer Hi-Bred International, Inc.	12/28/2000	
	2U	WO	01/17333	A1	Texas Tech University	03/15/2001	
	2V	WO	01/23594	A2	Pioneer Hi-Bred International, Inc.	04/05/2001	
	2W	WO	01/64928	A2	Research & Development Institute, Inc.	09/07/2001	
	2X	WO	01/70987	A2	Cold Spring Harbor Laboratory	09/27/2001	
	2Y	WO	01/90343	A2	Cold Spring Harbor Laboratory	11/29/2001	
	2Z	WO	02/16558	A1	University of Connecticut	02/28/2002	
	3A	WO	02/18538	A2	Soo-Hwan KIM	03/07/2002	
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NON PATENT LITERATURE DOCUMENTS			
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	3C	ABBOTT et al., "Simultaneous suppression of multiple genes by single transgenes. Down-regulation of three unrelated lignin biosynthetic genes in tobacco," *Plant Physiol.* 128:844-853, 2002.	
	3D	ATANASSOVA et al., "A 126bp fragment of a plant histone gene promoter confers preferential expression in meristems of transgenic Arabidopsis," *Plant J.*, 2:291-300, 1992.	
	3E	AULD et al., "Chemical mutagenesis as a tool in cotton improvement," *Proceedings of the Beltwide Cotton Conf.*, 1:550-552, 1998.	
	3F	AWAZUHARA et al., "A 235-bp region from a nutritionally regulated soybean seed-specific gene promoter can confer its sulfur and nitrogen response to a constitutive promoter in aerial tissues of arabidopsis thaliana," *Plant Sci.*, 163:75-82, 2002.	
	3G	BAO et al., "Supply of fatty acid is one limiting factor in the accumulation of triacylglycerol in developing embryos," *Plant Physiol.*, 120:1057-1062, 1999.	
	3H	BAO et al., "Isolation and characterization of an arabidopsis biotin carboxylase gene and its promoter," *Plant Mol. Biol.*, 35:539-550, 1997.	
	3I	BARKER et al., "Cellular localization of soybean storage protein mRNA in transformed tobacco seeds," *Proc. Natl. Acad. Sci. USA*, 85:458-462, January 1988.	
	3J	BOUVIER-NAVE et al., "Expression in yeast and tobacco of plant cDNAs encoding acyl CoA:diacylglycerol acyltransferase," *Eur. J. Biochem.*, 267:85-96, 2000.	
	3K	BROWN et al., "Substrate selectivity of plant and microbial lysophosphatidic acid," *Phytochem.*, 61:493-501, 2002.	
	3L	BURTON, J.W., "Quantitative genetics: Results relevant to soybean breeding," Soybeans: Improvement, Production and Uses. Madison WI, pgs. 211-247, 1987.	
	3M	CHAPMAN et al., "Transgenic cotton plants with increased seed oleic acid content," *J. Am. Oil Chemists Soc.*, 78(9):941-947, 2001.	
	3N	CHAPMAN et al., "N-Acylethanolamines in seeds. Quantification of molecular species and their degradation upon imbibition," *Plant Physiol.*, 120:1157-1164, 1999.	

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	3O	CHEN et al., "A DNA sequence element that confers seed-specific enhancement to a constitutive promoter," *EMBO. J.*, 7:297-302, 1988.	
	3P	CHERRY et al., "Food and feeding quality of cottonseed," Cotton Physiology, Chapter 37 pages 557-595, published by the Cotton Foundation, 1986.	
	3Q	CHUANG et al., "Specific and heritable genetic interference by double-stranded RNA in Arabidopsis thaliana," *Proc. Natl., Acad. Sci. USA*, 97:4985-4990, 2000.	
	3R	CORNELISSEN et al., "Both RNA level and translocation efficiency are reduced by anti-sense RNA in transgenic tobacco," *Nucl. Acids Res.*, 17:833-843, 1989.	
	3S	COTTEN et al., "Ribozyme mediated destruction of RNA in vivo," *EMBO J.*, 8:3861-3866, 1989.	
	3T	DANI, R.G., "Genetic improvement of seed oil content, following indirect selection for earliness and fibre yield in cotton (Gossypium hirsutum L.)," *Adv. Plant Sci.*, 12:479-492, 1999.	
	3U	DEHESH et al., "Overexpression of 3-ketoacyl-acyl-carrier protein synthase IIIs in plants reduces the rate of lipid synthesis," *Plant Physiol.*, 125:1103-1114, 2001.	
	3V	DHADIALLA et al., "New insecticides with ecdysteroidal and juvenile hormone activity," *Annu. Rev. Entomol.*, 43:545-569, 1998.	
	3W	DUDLEY et al., "Ninety generations of selection for oil and protein in maize," *Maydica*, 37:81-87, 1992.	
	3X	DUNWELL, J.M., "Transgenic approaches to crop improvement," *J. Exp. Bot.*, 51:487-496, 2000.	
	3Y	EASTMOND et al., "Postgerminative growth and lipid catabolism in oilseeds lacking the glyoxylate cycle," *Proc. Natl. Acad. Sci. USA*, 97(10):5669-5674, 2000.	
	3Z	EZCURRA et al., "Interaction between composite elements in the napA promoter: both the B-box ABA-responsive complex and the RY/G complex are necessary for seed-specific expression," *Plant Mol. Biol.*, 40:699-709, 1999.	
	4A	FEHR et al., "Backcross Method," In: Principles of Cultivar Development, Vol. 1, Chapter 28, Walter R. Fehr. pp. 360-376, (1987).	

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	4B	FIRE et al., "Potent and specific genetic interference by double-stranded RNA in Caenorhabditis elegans," *Nature,* 391:806-811, 1998.	
	4C	FOCKS et al., "wrinkled1: A Novel, low-seed-oil mutant of arabidopsis with a deficiency in the seed-specific regulation of carbohydrate metabolism," *Plant Physiol.*, 118:91-101, 1998.	
	4D	GATZ et al., "Regulation of a modified CaMV 35S promoter by the Tn10-encoded Tet repressor in transgenic tobacco," *Mol. Gen. Genet.*, 227:229-237, 1991.	
	4E	GUAN et al., "Heritable endogenous gene regulation in plants with designed polydactyl zinc finger transcription factors," *Proc. Natl. Acad. Sci. USA,* 99:13296-13301, 2002.	
	4F	HAYASHI et al., "2,4-Dichlorophenoxybutyric acid-resistant mutants of arabidopsis have defects in Glyoxysomal fatty acid β-oxidation," *Plant Cell*, 10:183-195, 1998.	
	4G	HOANG et al., "Biochemical and molecular inhibition of plastidial carbonic anhydrase reduces the incorporation of acetate into lipids in cotton embryos and tobacco cell suspensions and leaves," *Plant Physiol.*, 128:1417-1427, 2002.	
	4H	HOANG et al., "Regulation of carbonic anhydrase gene expression in cotyledons of cotton (gossypium hirsutum L.) Seedlings during post-germinative growth," *Plant Mol. Biol.,* 49:449-458, 2002.	
	4I	HOPPER et al., "The Cotton Seed" In: Cotton Origin History, Technology and Production, Ed.: Wayne C. Smith, pp. 289-312 (1999)	
	4J	JAKO et al., "Seed-specific over-expression of an arabidopsis cDNA encoding a diacylglycerol acyltransferase enhances seed oil content and seed weight," *Plant Physiol.,* 126:861-874, 2001.	
	4K	JOBLING et al., "Immunomodulation of enzyme function in plants by single-domain antibody fragments,"*Nat. Biotech.,* 21:77-80, 2002.	
	4L	JONES et al., "Cottonseed Oil," *National Cottonseed Products Assoc. Inc.,* 1993.	
	4M	KATAVIC et al., "Improving erucic acid content in rapeseed through biotechnology: what can the arabidopsis FAE1 and the yeast SLC1-1 genes contribute," *Crop Sci.,* 41:739-747, 2001.	
	4N	KATAVIC et al., "Alteration of seed fatty acid composition by an ethyl methanesulfonate-induced mutation in arabidopsis thaliana affecting diacylglycerol acyltransferase activity," *Plant Physiol.,* 108:399-409, 1995.	

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	4O	KE et al., "Coordinate regulation of the nuclear and plastidic genes coding for the subunits of the heteromeric acetyl-coenzyme a carboxylase," *Plant Physiol.,* 122:1057-1071, 2000.	
	4P	KERBY et al., "Growth and development of acala cotton," *Bulletin 1921,* Univ. Of Cali., Div. Of Agriculture and Natural Resources, Oakland, California, 1987.	
	4Q	KOZAKI et al., "Recombinant carboxyltransferase responsive to redox of pea plastidic acetyl-CoA carboxylase," *J. Biol. Chem.,* 275(14):10702-10708, 2000.	
	4R	KRIDL et al., "Isolation and characterization of an expressed napin gene from Brassica rapa," *Seed Sci. Res.,* 1:209-219, 1991.	
	4S	LANDIVAR et al., "Application of GOSSYM to genetic feasibility studies. I. Analyses of fruit abscission and yield in okra-leaf cottons," *Crop Sci.,* 23:497-504, 1983.	
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	4U	LAST et al., "pEmu: an improved promoter for gene expression in cereal cells," *Theor. Appl. Genet.,* 81:581-588, 1991.	
	4V	LAUTERBACH et al., "Yield enhancement in cotton," In: Genetic Control of Cotton Fiber and Seed Quality, Cotton Inc., pgs. 104-109, 2000.	
	4W	LAWRENCE et al., "A rapid method for the production and characterization of recombinant insecticidal proteins in plants," *Mol. Plant Breeding,* 8:139-146, 2001.	
	4X	LEPETIT et al., "A plant histone gene promoter can direct both replication-dependent and -independent gene expression in transgenic plants," *Mol. Gen. Genet.,* 231:276-285, 1992.	
	4Y	LIU et al., "High-stearic and high-oleic cottonseed oils produced by hairpin RNA-mediated post-transcriptional gene silencing," *Plant Physiol.,* 129:1732-1743, 2002.	
	4Z	LIU et al., "High-oleic and high-stearic cottonseed oils: nutritionally improved cooking oils developed using gene silencing," *J. Am. Coll. Nutr.,* 21(3):205S-211S, 2002.	
	5A	LU et al., "Arabidopsis mutants deficient in diacylglycerol acyltransferase display increased sensitivity to abscisic acid, sugars, and osmotic stress during germination and seedling development," *Plant Physiol.,* 129:1352-1358, 2002.	

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	5B	MADOKA et al., "Chloroplast transformation with modified accD operon increases acetyl-CoA carboxylase and causes extension of leaf longevity and increase in seed yield in tobacco," *Plant Cell Physiol.*, 43(12):1518-1525, 2002.	
	5C	MARTINEZ et al., "Ecdysone agonist inducible transcription in transgenic tobacco plants," *Plant J.*, 19(1):97-106, 1999.	
	5D	MAY , O. L., "Breeding Improvements–What does the future hold?", 14th Ann. EFS® Conference, June 11-13, 2001.	
	5E	McELROY et al., "Isolation of an efficient actin promoter for use in rice transformation," *Plant Cell*, 2:163-171, 1990.	
	5F	O'HARA et al., "Fatty acid and lipid biosynthetic genes are expressed at constant molar ratios but different absolute levels during embryogenesis," *Plant Physiol.*, 129:310-320, 2002.	
	5G	OHLROGGE et al., "Lipid Biosynthesis," *Plant Cell*, 7:957-970, 1995.	
	5H	OHLROGGE et al., "Regulation of fatty acid," *Annu. Rev. Plant Physiol. Mol. Biol.*, 48:109-136, 1997.	
	5I	OLIVER et al., "Development of a genetically based seed technology protection system," *In: Dealing with Genetically Modified Crops*, AOCS Press, Chapter 12, 2001.	
	5J	OUWERKERK et al., "A G box element from the catharanthus roseus strictosidine synthase (Str) gene promoter confers seed-specific expression in transgenic tobacco plants," *Mol. Gen. Genet.*, 261:635-643, 1999.	
	5K	PETTIGREW, W.T., "Environmental effects on cotton fiber carbohydrate concentration and quality," *Crop Sci.*, 41:1108-1113, 2001.	
	5L	PRICE et al., "Specific reduction of chloroplast carbonic anhydrase activity by antisense RNA in transgenic tobacco plants has a minor effect on photosynthetic CO_2 assimilation," *Planta*, 193:331-340, 1994.	
	5M	RASK et al., "Seed-specific regulation of the napin promoter in brassica napus," *J. Plant Physiol.*, 152:595-599, 1998.	
	5N	RATCLIFF et al., "Tobacco rattle virus as a vector for analysis of gene function by silencing," *Plant J.*, 25(2):237-245, 2001.	

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				Group Art Unit	1638
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Sheet	9	of	11	Attorney Docket Number	1760-297

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	5O	REGIERER et al., "Starch content and yield increase as a result of altering adenylate pools in transgenic plants," *Nat. Biotechnol.*, 20:1256-1260, 2002.	
	5P	REVERDATTO et al., "A multisubunit acetyl coenzyme a carboxylase from soybean," *Plant Physiol.*, 119:961-978, 1999.	
	5Q	ROESLER et al., "Targeting of the arabidopsis homomeric acetyl-coenzyme a carboxylase to plastids of rapeseeds," *Plant Physiol.*, 113:75-81, 1997.	
	5R	RUUSKA et al., "Contrapuntal networks of gene expression during arabidopsis seed filling," *Plant Cell*, 14:1191-1206, 2002.	
	5S	SARMIENTO et al., "Expression and subcellular targeting of a soybean oleosin in transgenic rapeseed. Implications for the mechanism of oil-body formation in seeds," *Plant J.*, 11(4):783-796, 1997.	
	5T	SCHENA et al., "A steroid-inducible gene expression system for plant cells,"*Proc. Natl. Acad. Sci. USA*, 88:10421-10425, 1991.	
	5U	SELLWOOD et al., "Effects of manipulating expresison of acetyl-CoA carboxylase I in Brassica napus L. Embryos," *Biochem. Soc. Trans.*, 28(6):598-600, 2000.	
	5V	SHANTHI et al., "Genetic architecture of cotton seed oil content," *Madras Agric. J.*, 86:332-333, 1999.	
	5W	SHINTANI et al., "Antisense expression and overexpression of biotin carboxylase in tobacco leaves," *Plant Physiol.*, 114:881-886, 1997.	
	5X	SHORROSH et al., "The pea chloroplast membrane-associated protein, IEP96, is a subunit of acetyl-CoA carboxylase," *Plant J.*, 10(2):261-268, 1996.	
	5Y	SHRESTHA et al., "N-Acylethanolamines are metabolized by lipoxygenase and amidohydrolase in competing pathways during cottonseed imbibition," *Plant Physiol.*, 130:391-401, 2002.	
	5Z	SMIDANSKY et al., "Enhanced ADP-glucose pyrophosphorylase activity in wheat endosperm increases seed yield," *Proc. Natl. Acad. Sci. USA*, 99(3):1724-1729, 2002.	

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	6A	SMIDANSKY et al., "Seed yield and plant biomass increases in rice are conferred by deregulation of endosperm ADP-glucose pyrophosphorylase," *Planta,* 216:656-664, 2003.	
	6B	STOUTJESDIJK et al., "hpRNA-mediated targeting of the arabidopsis FAD2 gene gives highly efficient and stable silencing," *Plant Physiol.,* 129:1723-1731, 2002.	
	6C	SUH et al.,'Isoforms of acyl carrier protein involved in seed-specific fatty acid synthesis," *Plant J.,* 17(6):679-688, 1999.	
	6D	SUNILKUMAR et al., "Cotton α-globulin promoter: isolation and functional characterization in transgenic cotton, arabidopsis, and tobacco," *Transgenic Res.,* 11:347-359, 2002.	
	6E	SUNILKUMAR et al., "Transgenic cotton factors influencing Agrobacterium-mediated transformation and regeneration," *Mol. Breeding,* 8:37-52, 2001.	
	6F	TAYLOR, et al., "Field testing of transgenic rapeseed cv. hero transformed with a yeast sn-2 acyltransferase results in increased oil content, erucic acid content and seed yield," *Mol. Breeding,* 8:317-322, 2001.	
	6G	THELEN, et al., "Brassicaceae express multiple isoforms of biotin carboxyl carrier protein in a tissue-specific manner," *Plant Physiol.,* 125:2016-2028, 2001.	
	6H	TOWNSEND et al., "Spatial and temporal regulation of a soybean (glycine max) lectin promoter in transgenic cotton (gossypium hirsutum)," *Funct. Plant. Biol.,* 29:835-843, 2002.	
	6I	TREALEASE et al., "Synthesis and compartmentation of enzymes during cottonseed maturation," In: Cotton Physiology, Chapter 29:440-462, (Cotton Foundation, 1986).	
	6J	UNGER et al., "A chimeric ecdysone receptor facilitates methoxyfenozide-dependent restoration of male fertility in ms45 maize," *Transgenic Res.,* 11:455-465, 2002.	
	6K	VAN HOUDT et al., "RNA target sequences promote spreading of RNA silencing," *Plant Physiol.,* 131:245-253, 2003.	
	6L	VAN DER GEEST et al., "A 68 bp element of the β-phaseolin promoter functions as a seed-specific enhancer," *Plant Mol. Biol.,* 32:579-588, 1996.	

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	6M	WESSLER et al., "Genomic region from Gossypium hirsutum L. Encoding a plastid targeted carbonic anhydrase isoform (CAH2)," NCBI AF482951, 2002.	
	6N	WHITE et al., "A new set of arabidopsis expressed sequence tags from developing seeds. The metabolic pathway from carbohydrates to seed oil," *Plant Physiol.*, 124:1582-1594, 2000.	
	6O	WULLSCHLEGER et al., "Photosynthetic carbon production and use by developing cotton leaves and bolls," *Crop Sci.*, 30(6):1259-1264, 1990.	
	6P	ZOU et al., "Cloning of a cDNA encoding the 21.2 kDa oleosin isoform from Arabidopsis thaliana and a study of its expression in a mutant defective in diacylglycerol acyltransferase activity," *Plant Mol. Biol.*, 31:429-433, 1996.	
	6Q	ZOU et al., "Modification of seed oil content and acyl composition in the brassicaceae by expression of a yeast sn-2 acyltransferase gene," *Plant Cell*, 9:909-923, 1997.	
	6R	ZOU et al., ""The arabidopsis thaliana TAG1 mutant has a mutation in a diacylglycerol acyltransferase gene," *Plant J.*, 19(6):645-653, 1999.	
	6S	ZUO et al., "An estrogen receptor-based transactivator XVE mediates highly inducible gene expression in transgenic plants," *Plant J.*, 24(2):265-273, 2000.	
	6T	RAYBURN et al., "2001 National Cotton Variety Test", Crop Genetics & Production Research Unit, 2001.	

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